

DAIMLER TRUCK

North America

Renegade Owners Rally – Galveston, TX

Jason Pilarczyk November 2025

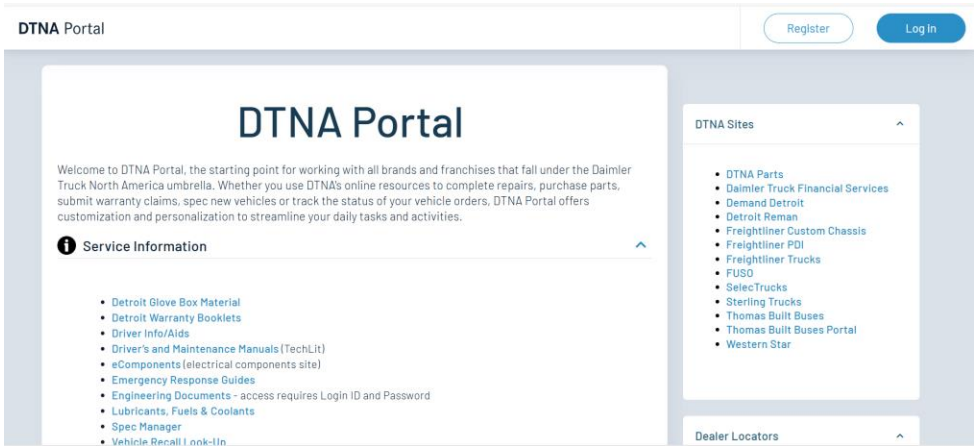


Agenda

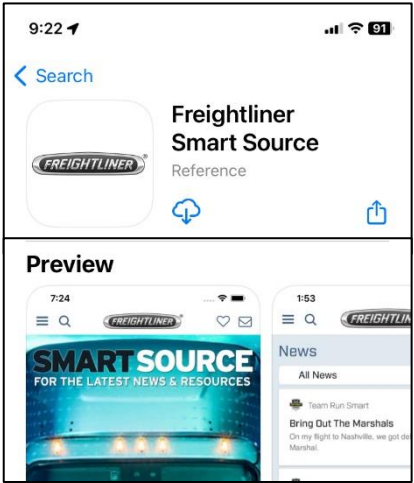
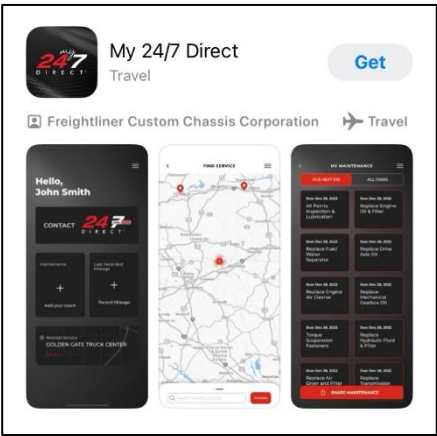
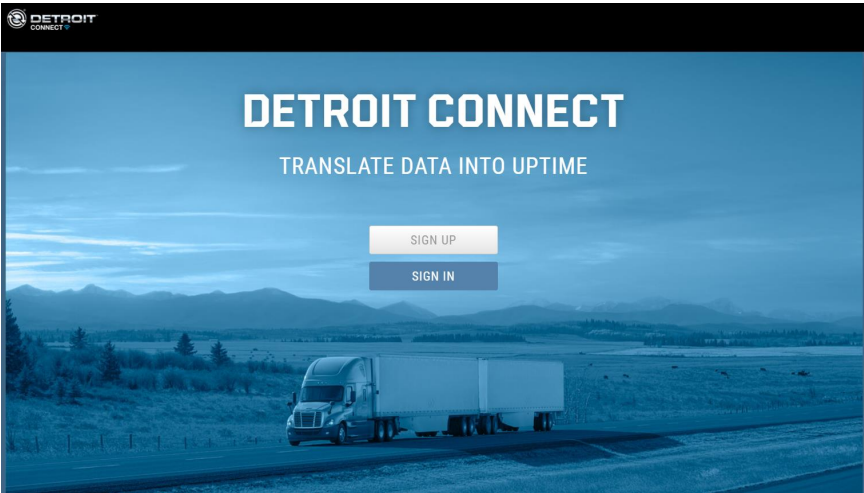
- Review Access to tools
- Detroit Connect Update
- Cummins Adaptive Cruise Update
- Cascadia/Western Star Shock Mount Campaign
- Extended Warranty
- Cummins Maintenance
 - B6.7 bulletin 4971286
 - L9 bulletin 4971288
- Detroit Maintenance
- Live Q&A

DTNA Tools *(DTNAConnect & Detroit Connect)*

<https://dtnacontent-dtna.prd.freightliner.com>

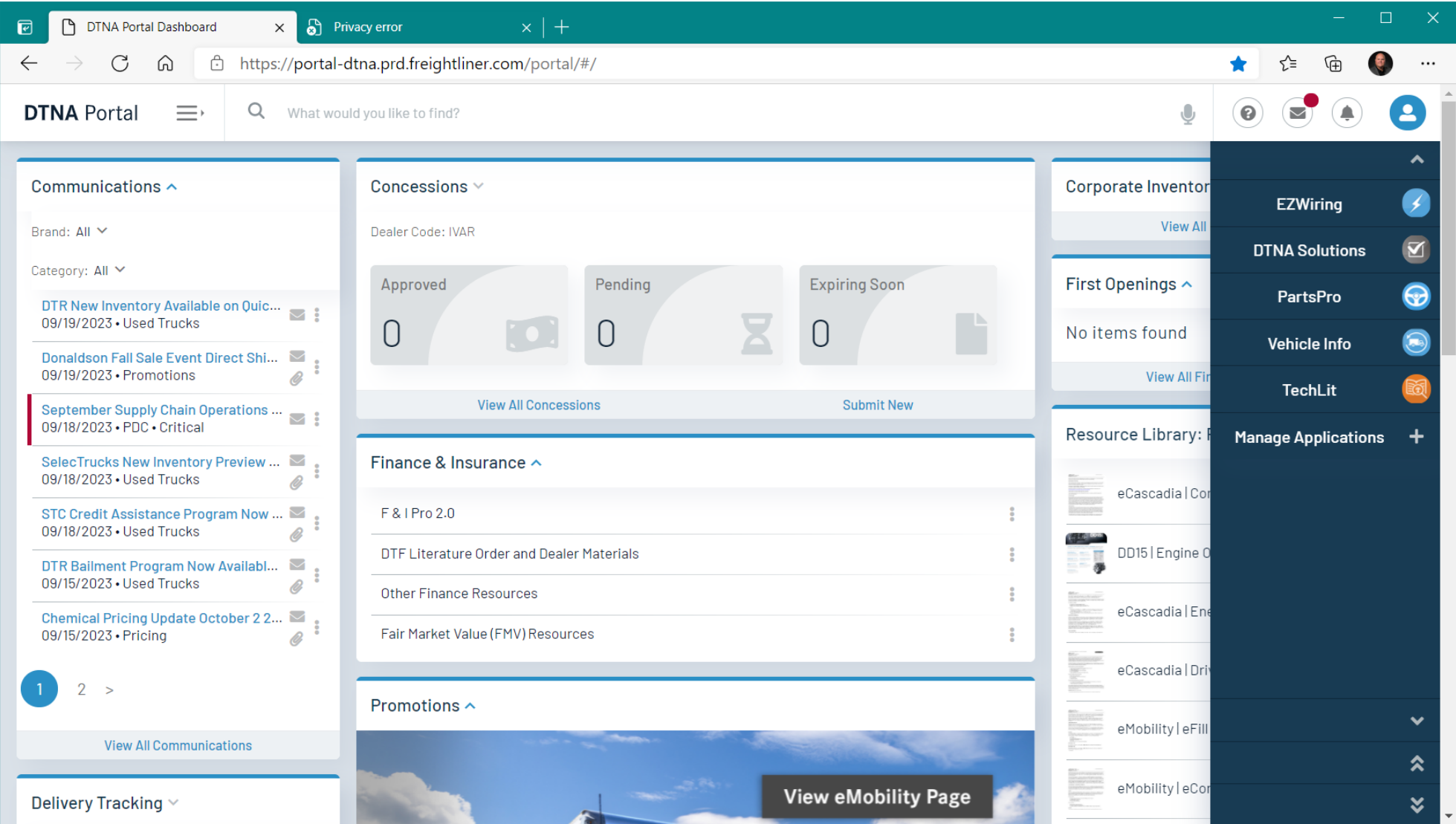


<https://hq.detroitconnect.com/>



Freightliner Custom Chassis – S2RV chassis (Valencia)

DTNA Portal Tools *(DTNAConnect)*



DTNA Portal Tools (DTNAConnect) – EZ Wiring

EZwiring™

HelpContactLogout

Vehicle InformationDrawing ViewFloating Pin ListCommodity

Location SearchSub-System SearchService Wiring Search

Serial Number : UV4362VIN/Model/Build Date: 1FVACYFE0RHUV4362 -- M2 106 MEDIUM DUTY CLASS 8 -- 2023-03-01


System Options: All SchematicsViewClearClear Report

All Schematics Report




Lead Serial : UV4362 Quantity Built : 2Serial Number: UV4362 VIN: 1FVACYFE0RHUV4362

BOM ID	Part Number	Description	Quantity	Part of a Commodity?
12C-C04108	G66-13367-001	WRG-ALT_CHG,RMT SEN,STUD	0	
127-C08804	G66-14062-000	WRG-FUEL_HTR,WIF,DAVCO	0	
127-C08804	G66-14071-000	WRG-FUEL_HTR,HEATER,STD,FLM	0	
132-C03312	G06-83255-000	WRG-ENG HTR,GRID HTR,CUM,2013	0	
152-C08209	G66-13753-002	WRG-ENG_IND,LOW CLNT,ENG	0	
152-C08209	G66-13753-003	WRG-ENG_IND,LOW CLNT,DASH	0	
156-C28506	G66-24780-004	WRG-ST_SP,IGN SW,DASH	0	
156-C28506	G66-24780-005	WRG-ST_SP,STARTER RLY,ENG	0	
160-W08259	G66-13150-000	WRG-DL_CAB,CAN,FLM	0	
160-W08259	G66-13151-000	WRG-DL_CHAS,CAN,FLM	0	
160-W08259	G66-13152-000	WRG-DL_DIAG,CAN,FLM	0	
160-W08259	G66-13155-000	WRG-DL_500,J1939,CUM,NO OVHD	0	
160-W08259	G66-15342-000	WRG-CAN_EXT,FLM	0	
2YT-C09603	G66-19135-000	WRG-GND_PWRRTN,CMNS,PWR RTN	0	
2YT-C09603	G66-19135-001	WRG-GND_PWRRTN,CMNS,SNSR RTN	0	
2YT-C09603	G66-19135-002	WRG-GND_PWRRTN,CMNS,XMSN RTN	0	
2YT-C09603	G66-19135-003	WRG-GND_PWRRTN,CMNS,XMSN RTN	0	
2YT-C09603	G66-19135-004	WRG-GND_PWRRTN,CMNS,SNSR RTN	0	
2YT-C09603	G66-19135-005	WRG-GND_PWRRTN,CMNS,SNSR RTN,	0	
2YU-C00934	G66-13463-000	WRG-GND_EXT,FLM	0	
264-C09200	G66-14664-000	WRG-HORN,ELECTRIC HORN,SGL,FLM	0	

DTNA Portal Tools *(DTNAConnect)* – Tech Lit

 Technical Literature

Search site wide



Search all Publications

Search all Manuals

Search all Bulletins

Recently Updated Bulletins

23TS-04Rev - Gen 5 DD13 (471952) Engines with Excessive Oil Consumption

DD13, GHG21

09/19/2023

18SP532Rev — Install Follower Spring and Retainer Kit 23528939 on Series 50 or Series 60 Fuel Injector

S60, S50

09/07/2023

23TS-05Rev - Fault Codes SPN 2659/FMI 0 and SPN 3216/FMI 20 on DD16/GATS 2.0 Only

GHG17, DD16

08/25/2023

23TS-06 - Gen 5 DD15 (472912) External Coolant Leaks at Cylinder Head Joint

GHG17, DD15

08/17/2023

Gen 5 Heavy Duty Engine Exhaust Valve Adjusting Screw Excessive Wear Repair Path Update

DD15, GHG21

08/15/2023

Ordering Instructions for Key Coded Lock Sets

Cascadia, FLB COE, 108SD, Business Class M2, FLC112 Conver ...

04/26/2023

Installing Rain Gutters for Upper Door Seal Leaks

49X, 47X, 57X

04/19/2023

Concrete and Refuse Mid-Ship Five Piece Crossmember

04/19/2023

Recently Updated Procedures

SPN 65279/FMI 15 - EPA10

EPA07/10/GHG14 DD Platform Electronics and Troubleshooting Manual

09/19/2023

SPN 65279/FMI 16 - EPA10

EPA07/10/GHG14 DD Platform Electronics and Troubleshooting Manual

09/19/2023

SPN 524287/FMI 9 - GHG14

EPA07/10/GHG14 DD Platform Electronics and Troubleshooting Manual

09/19/2023

SPN 524287/FMI 19 - GHG14

EPA07/10/GHG14 DD Platform Electronics and Troubleshooting Manual

09/19/2023

SPN 524289/FMI 4 - GHG14

EPA07/10/GHG14 DD Platform Electronics and Troubleshooting Manual

09/19/2023

SPN 524290/FMI 1 - EPA10

EPA07/10/GHG14 DD Platform Electronics and Troubleshooting Manual

09/19/2023

SPN 524291/FMI 1 - EPA07 - EPA10

EPA07/10/GHG14 DD Platform Electronics and Troubleshooting Manual

09/19/2023

DTNA Portal Tools (DTNAConnect) – Tech Lit



Reset Filters

Search

- ☐ Publications
- ☒ Manuals
- ☐ Topics
- ☐ Bulletins
- ☐ Wiring Diagrams
- ☐ Site Wide

Make

- ☐ All Makes
- ☐ Detroit Diesel
- ☐ FCCC
- ☒ Freightliner
- ☐ Sterling Trucks
- ☐ Thomas Built Buses
- ☐ Western Star

Document Type

- ☐ All Document Types
- ☐ 18SP
- ☐ Detroit Application and Installation Manual
- ☐ OEM
- ☐ Other
- ☐ Owners and Maintenance Manual
- ☐ Technical Service Bulletin
- ☐ Troubleshooting Manual



Business Class M2 Driver's Manual

Make	Freightliner
Document Type	Owners and Maintenance Manual
Publication Date	2023-01-23
Model	Business Class M2



Business Class M2 Maintenance Manual

Make	Freightliner
Document Type	Owners and Maintenance Manual
Publication Date	2023-01-16
Model	Business Class M2



Business Class M2 Workshop Manual

Make	Freightliner
Document Type	Troubleshooting Manual Workshop Manual
Publication Date	2023-05-01
Model	Business Class M2



Business Class M2 Plus Workshop Manual

Make	Freightliner
Document Type	Workshop Manual
Publication Date	2023-07-12
Model	Business Class M2

Renegade MY2024 +



DTNACconnect Registration Page 1

<https://dtnacontent-dtna.prn.freightliner.com/content/public/forms/fleetrequest.html>

Fleet Customer/Vehicle Owner DTNA Portal Registration Form

Type of Business*

Owner/Operator

Company Name *

Branch

Address 1*

City*

Country*

Please select a Country

State*

Please select a State

Zip Code*

Dealer/Customer Code (if assigned)

Primary Contact

Due to the importance of the follow-up information, the accuracy of your business email address and phone number are critical.

- Choose “Owner/Operator”

Enter your First and Last name for Company Name

Provide address used for
Warranty Registration

Skip

Skip

DTNAConnect Registration Page 2

Primary Contact

Due to the importance of the follow-up information, the accuracy of your business email address and phone number are critical.

First and Last Name *

Title

Phone Number *

Email *

Verify Email *

Secondary Contact Name

Secondary Title

Secondary Phone

Secondary Email

Verify Email

Please select all the Daimler Trucks North America vehicle brands you operate. A corresponding box will appear requiring the last six digits of a vehicle serial number. For your convenience, only one serial number for each vehicle brand is needed for the accurate verification and release of technical information for all the vehicles registered to you in our Warranty Department.

☐ Freightliner

☐ Western Star

☐ Sterling

☐ Thomas Built Bus

☐ FCCC

First and Last name
Phone
Email

Freightliner (Future Western Star option)

DTNAConnect Registration Page 3

Can use <https://freightliner.com/dealer-search/> - to find your closest dealer or the Freightliner SmartSource App.

Please identify the Daimler Trucks North America dealer in your area with whom you typically do business.

Dealer Name

City

Country

Please select a Country



State

Please select a State



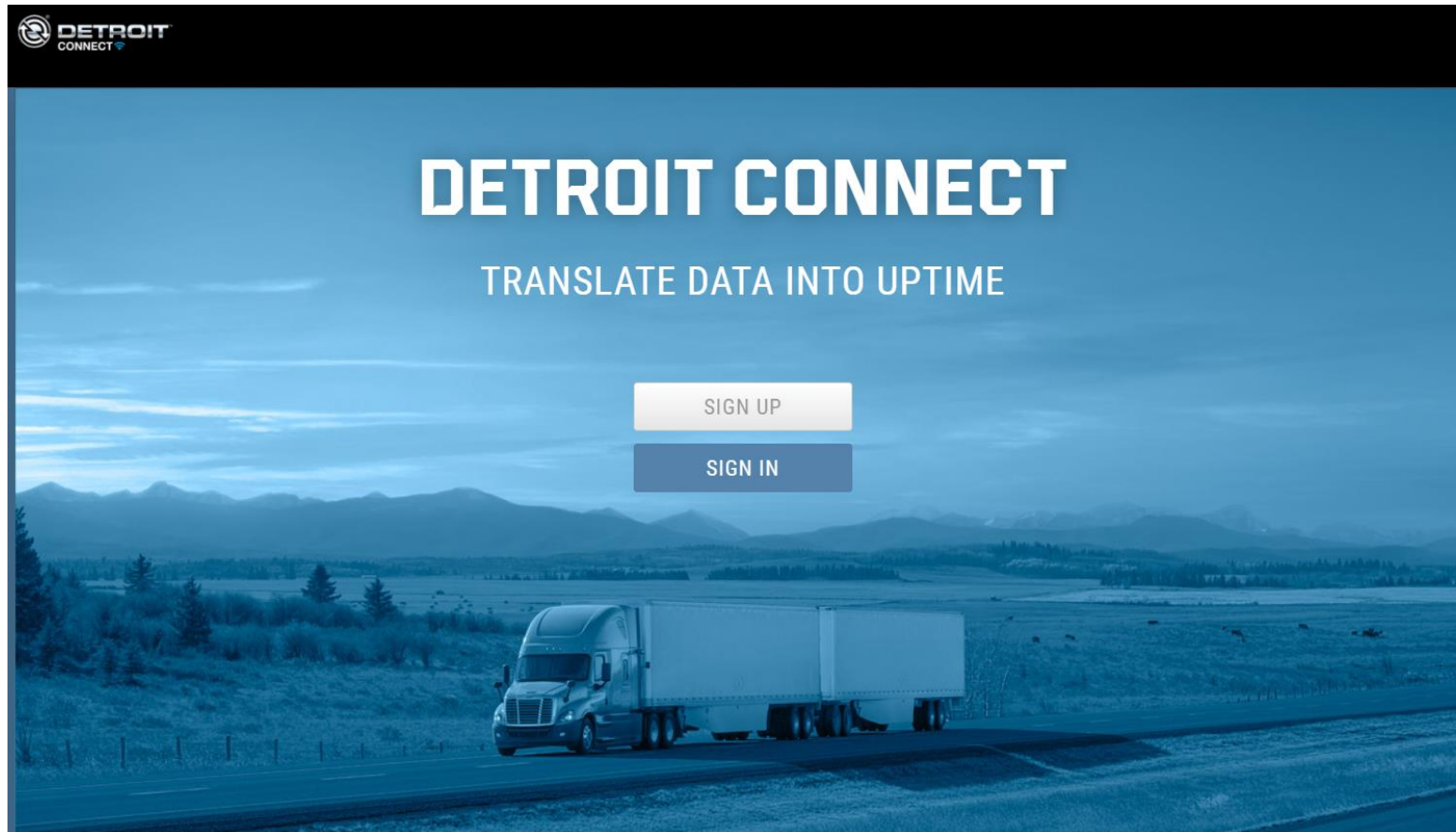
Zip Code

Comments

Detroit Connect Registration

**Now Available with
Cummins engines!!**

<https://hq.detroitconnect.com/> -



At this time there is one piece of missing information needed to register that Owners do not have access to. In order to setup an account please e-mail me at [Register](#) with the following information:
First Name:
Last Name:
E-mail:
Phone:
Last 6 of VIN (ie NV3021):

What is Detroit Connect?



Detroit Connect is a suite of connected vehicle services designed to give insights into a fleet's vehicle health.

The services in the suite are:

1. Uptime Services: Virtual Technician
2. Remote Services: Remote Parameter updates and Detroit Diesel Engine Control (DDEC) reports
3. Safety Services: Safety Event Viewer, Safety Plus, Video Capture

With Detroit Connect we bring you the data you need for your vehicles.

Safety -Detroit Assurance



Feature	DD Engine w/Detroit DT12 Transmission	Allison, AMT* & Manual Transmissions w/DD Engine	Allison, AMT* & Manual Transmissions w/Cummins
Active Brake Assist 5.0	✓	✓	✓
Adaptive Cruise Control**	✓ - ACC to 0	✓ - ACC to 10	✓ - ACC to 10
Lane Departure Warning	✓	✓	✓
Intelligent High Beam Control	✓	✓	✓
Automatic Headlights/Wipers	✓	✓	✓
Side Guard Assist	✓	✓	✓
Forward Video Capture	✓	✓	✓
Driver Facing Camera	✓	✓	✓
Traffic Sign Display	✓	-	-
Hold Function	✓	-	-
Active Speed Intervention	✓	-	-
Active Lane Assist	-	-	-

MY26

- Eaton AMT transmissions are not available on all Plus Mode

Shock Mount Campaign



Adobe Acrobat
Document

Subject: 18k Front Suspension Shock Absorbers

Daimler Truck North America LLC (DTNA), on behalf of its Freightliner Trucks Division, and wholly owned subsidiary, Western Star Truck Sales, Inc., is initiating Field Service Campaign SF721 to modify specific 2021-2025 Freightliner Cascadia, and Western Star 57X vehicles, manufactured January 22, 2020, through January 3, 2025.

The front suspension shock absorbers bottom out before full travel due to incorrect frame rail hole locations for the upper shock bracket.

A Daimler Truck North America authorized service facility will replace the upper shock bracket.

Please contact an authorized DTNA dealer to arrange to have the campaign performed and to ensure that parts are available. The campaign will take approximately three hours and will be performed **free of charge**. To locate an authorized dealer go to <https://northamerica.daimlertruck.com/brands/support>. At the bottom of the page click on the appropriate brand (shown as an icon), and at the top of each brand's page is an option to 'Find a Dealer'.

This Field Service Campaign will **terminate on September 30, 2026**. Please make sure the campaign is completed prior to this date. Work completed after this date will be done at the customer's expense.

Extended Towing & Extended Chassis Coverage by DTNA



RVs come with Engine & Transmission warranty for 5 years
Standard chassis coverage is 1 year

Why DTNA Extended Coverage?

- Pre-approved repair work at Dealerships
- One labor price across the US
- Increased resell value if still under warranty
- Towing options with maximum \$750/\$1200/\$1800
- TC4 chassis coverage gives bumper to bumper peace of mind
- Can be added after purchase by emailing with the last 6 of your VIN to Parts@RenegadeRV.com or calling (574)966-0181

Cummins Engine Motor Home Maintenance



RENEGADE
VALENCIA

B6.7



Adobe Acrobat
Document



Adobe Acrobat
Document



RENEGADE
VERONA

L9

DD13 Maintenance Intervals

Maintenance Intervals*

Item	Mi / km / Hr [†]	Severe Duty Avg 5 mpg	Short-Haul Avg 5.1-5.9 mpg	Long-Haul Avg 6-6.9 mpg	Efficient Long-Haul Avg 7+ mpg
Engine Oil and Filter Change**	Miles	35,000	40,000	55,000	65,000
	Kilometers	56,000	64,000	89,000	105,000
	Hours	750	1000	—	—
Fuel Filter Change	Miles	35,000	40,000	55,000	65,000
	Kilometers	56,000	64,000	89,000	105,000
	Hours	750	1000	—	—
Valve Lash Adjustment	Miles	Adjust at 100,000, at 500,000, and then every 500,000 thereafter.			
	Kilometers	Adjust at 160,000, at 800,000, and then every 800,000 thereafter.			
Diesel Particulate Filter	A check engine light will illuminate when ash requires removal. Normal DPF ash clean interval is:				
	Miles	500,000 to 550,000			
	Kilometers	800,000 to 880,000			
	Hours	11,000 to 11,500			
DEF Pump Filter	Replace filter every 3 years or 500,000 (800,000 km) miles, whichever comes first.				

DD16 Maintenance Intervals

Maintenance Intervals*

Item	Mi / km / Hr†	Severe Duty Avg 5 mpg	Short-Haul Avg 5.1-5.9 mpg	Long-Haul Avg 6+ mpg
Engine Oil and Filter Change**	Miles	35,000	40,000	55,000
	Kilometers	56,000	64,000	89,000
	Hours	750	1000	—
Fuel Filter Change	Miles	35,000	40,000	55,000
	Kilometers	56,000	64,000	89,000
	Hours	750	1000	—
Valve Lash Adjustment	Miles	Adjust at 100,000, at 500,000, and then every 500,000 thereafter.		
	Kilometers	Adjust at 160,000, at 800,000, and then every 800,000 thereafter.		
Diesel Particulate Filter	A check engine light will illuminate when ash requires removal. Normal DPF ash clean interval is:			
	Miles	500,000 to 550,000		
	Kilometers	800,000 to 880,000		
	Hours	11,000 to 11,500		
DEF Pump Filter	Replace filter every 3 years or 500,000 (800,000 km) miles, whichever comes first.			

DTNA Portal - Detroit Powertrain Fluids Site

DTNA Portal

Welcome to DTNA Portal, the starting point for working with all brands and franchises that fall under the Daimler Truck North America umbrella. Whether you use DTNA's online resources to complete repairs, purchase parts, submit warranty claims, spec new vehicles or track the status of your vehicle orders, DTNA Portal offers customization and personalization to streamline your daily tasks and activities.

Service Information

- Detroit Warranty Booklets
- Driver Info/Aids
- Driver's and Maintenance Manuals
- eComponents (electrical components site)
- Emergency Response Guides
- Engineering Documents
- **Lubricants, Fuels & Coolants**
- Spec Manager
- Vehicle Recall Look-Up

DTNA Portal has a Lubricants / Fuels/ Coolants site which provides information on the following fluids:

- *Engine Oil*
- *Fuel*
- *Coolant/Antifreeze*
- *Transmission Fluid*
- *Axle Fluid*
- *E-Motor*

The site also includes information such as:

- *Approved Fluid Lists*
- *Maintenance Intervals*
- *Application Descriptions*
- *Fluid Fill Volumes*
- *Fluid Education Material*
- *Any Other Relevant Fluid Material*

Did you know?

- *No login is required for the DTNA Connect fluid site.*
- *The DTNA fluids site is open to the public.*

<https://dtnacontent-dtna.prd.freightliner.com/content/public/dtnaportalpublic/LubricantsFuelsCoolants.html>

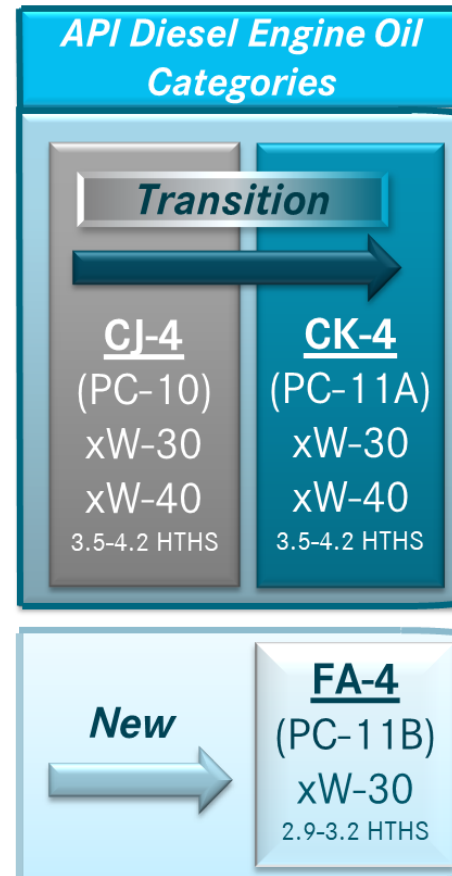
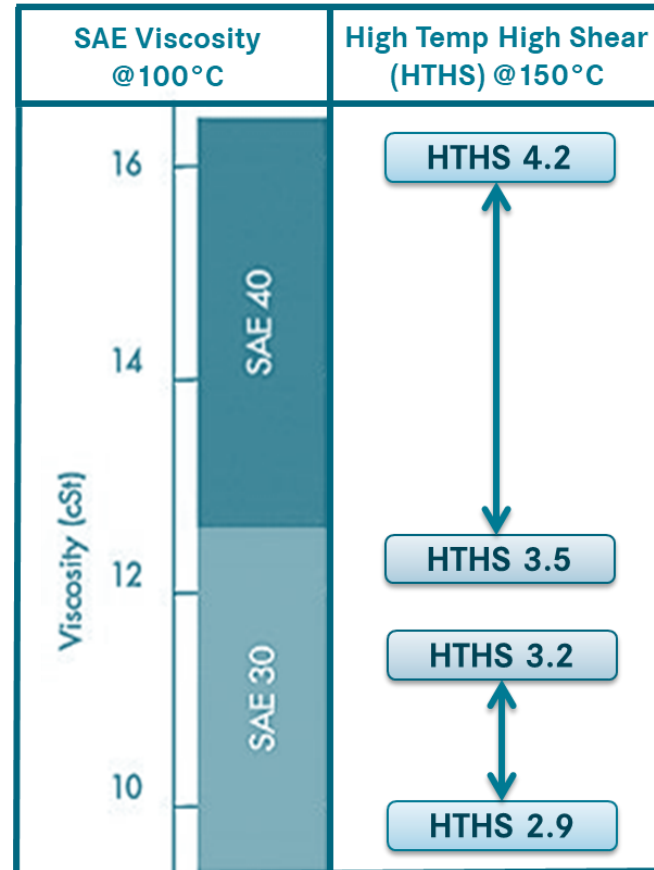
Timeline of API Engine Oil Categories

Timeline	2002	2002 → 2006		2007 → 2017		2017 → Now
API Category	API CH-4	API CI - 4	API CI-4 Plus	API CJ-4		API CK-4 API FA-4
Fuel Quality	High Sulfur < 5,000 ppm	Low Sulfur < 500 ppm		Ultra Low Sulfur < 15 ppm		
Application	Non - EGR	EGR		EGR, DPF	EGR, DPF, SCR	EGR, DPF, SCR Fuel Economy
Used Oil Properties	<ul style="list-style-type: none"> Fuel Sulfur Soot 	<ul style="list-style-type: none"> Fuel Sulfur Soot 	<ul style="list-style-type: none"> Soot Handling Shear Stability 	<ul style="list-style-type: none"> Soot Contamination 	<ul style="list-style-type: none"> Oxidation Contamination 	<ul style="list-style-type: none"> <u>Oxidation</u> Contamination
EPA/GHG	Pre - 2002	2002 to 2006		EPA 07 to EPA 10	EPA10 to GHG14	GHG 17 GHG 21
Detroit Specification	DFS 93K215	N/A	DFS 93K214	DFS 93K218		DFS 93K222 DFS 93K223

Detroit Engine Oil Factory Fill Timeline

Date	Pre-2013	2013 to 2015		2016	2017 / 2021
Detroit Engines	<ul style="list-style-type: none"> • DD13 • DD15 • DD16 	<ul style="list-style-type: none"> • All other DD13s • DD15TC • DD16 	<ul style="list-style-type: none"> • All DD15AT • DD13 in Cascadia Evolution 	<ul style="list-style-type: none"> • DD13 • DD15 • DD16 • DD5 	<ul style="list-style-type: none"> • DD13 • DD15 • DD16 • DD5 • DD8
SAE Viscosity	15W-40	15W-40	10W-30	10W-30	10W-30
~HTHS @ 150C	4.2 HTHS	4.2 HTHS	3.5 HTHS	3.5 HTHS	2.9 HTHS
API Category	CJ-4	CJ-4	CJ-4	CJ-4	FA-4
Detroit Specification	DFS 93K218	DFS 93K218	DFS 93K218	DFS 93K218	DFS 93K223 <i>(CK-4 DFS 93K222 also approved for service fill)</i>

What makes CK-4 & FA-4 different?



API CK-4

- ✓ CK-4 has Improved Oxidation/Aeration
- ✓ CK-4 Supersedes CJ-4 Category
- ✓ CK-4 Fully Backwards Compatible with CJ-4
- ✓ CK-4 has same viscosity/HTHS range as CJ-4 (3.5 HTHS to 4.2 HTHS)
- ✓ Examples of viscosities included are: **5W-30, 10W-30, 5W-40, 10W-40, 15W-40**

API FA-4

- ✓ FA-4 has Improved Oxidation/Aeration
- ✓ FA-4 = new category (no previous versions)
- ✓ FA-4 compatibility & backwards compatibility is OEM Dependent
- ✓ FA-4 has lower HTHS range (2.9-3.2 HTHS)
- ✓ Examples of viscosities are **5W-30, 10W-30**
- ✓ Lower viscosity → improved Fuel Economy

Note: There are 5W-30s & 10W-30s in both categories.

Detroit™ Fluid Specification (DFS) Update



Engine Oil - Backwards Compatibility

- ❑ Daimler is committed to reducing Total Cost of Ownership (TCO):
 - ❑ Using DFS 93K223 (FA-4) engine oils provides fuel economy improvement compared to CK-4.
 - ❑ Upon release of FA-4 oil in December 2016, all Detroit™ DD engines received DFS 93K223 (API FA-4) engine oil as factory fill.
 - ❑ Use of DFS 93K223 (FA-4) or DFS 93K222 (CK-4) Engine Oils provides extended oil drain intervals compared to API CJ-4.
- ❑ Customers may also utilize DFS 93K223 (FA-4) engine oil in their older model year Detroit™ heavy duty engines back to EPA 10:
 - ❑ GHG17
 - ❑ GHG14
 - ❑ EPA 10

Engine	Model Year	DFS 93K222 API CK-4	DFS 93K223 API FA-4
DD Series (DD5, DD8, DD13, DD15, DD16)	GHG 21 (Gen 5)	Yes	Yes
	GHG17	Yes	Yes
	GHG14	Yes	Yes
	EPA 10	Yes	Yes
	EPA 07	Yes	No
Legacy (S60, MBE 900, MBE4000)	All	Yes	No
Note: Yes or No indicates if the oil type can be used in year model year.			

Detroit Genuine Engine Oil Part Numbers

Detroit Genuine 10W-30 FE SAE FA-4

- MBL 23539982 Gallon
- MBL 23539984 Pail
- MBL 23539983 Drum

Detroit Genuine 10W-30 SAE CK-4

- MBL 23539978 Gallon
- MBL 23539980 Pail
- MBL 23539979 Drum



The performance you depend on, when everyone is depending on you.



Engine Oils

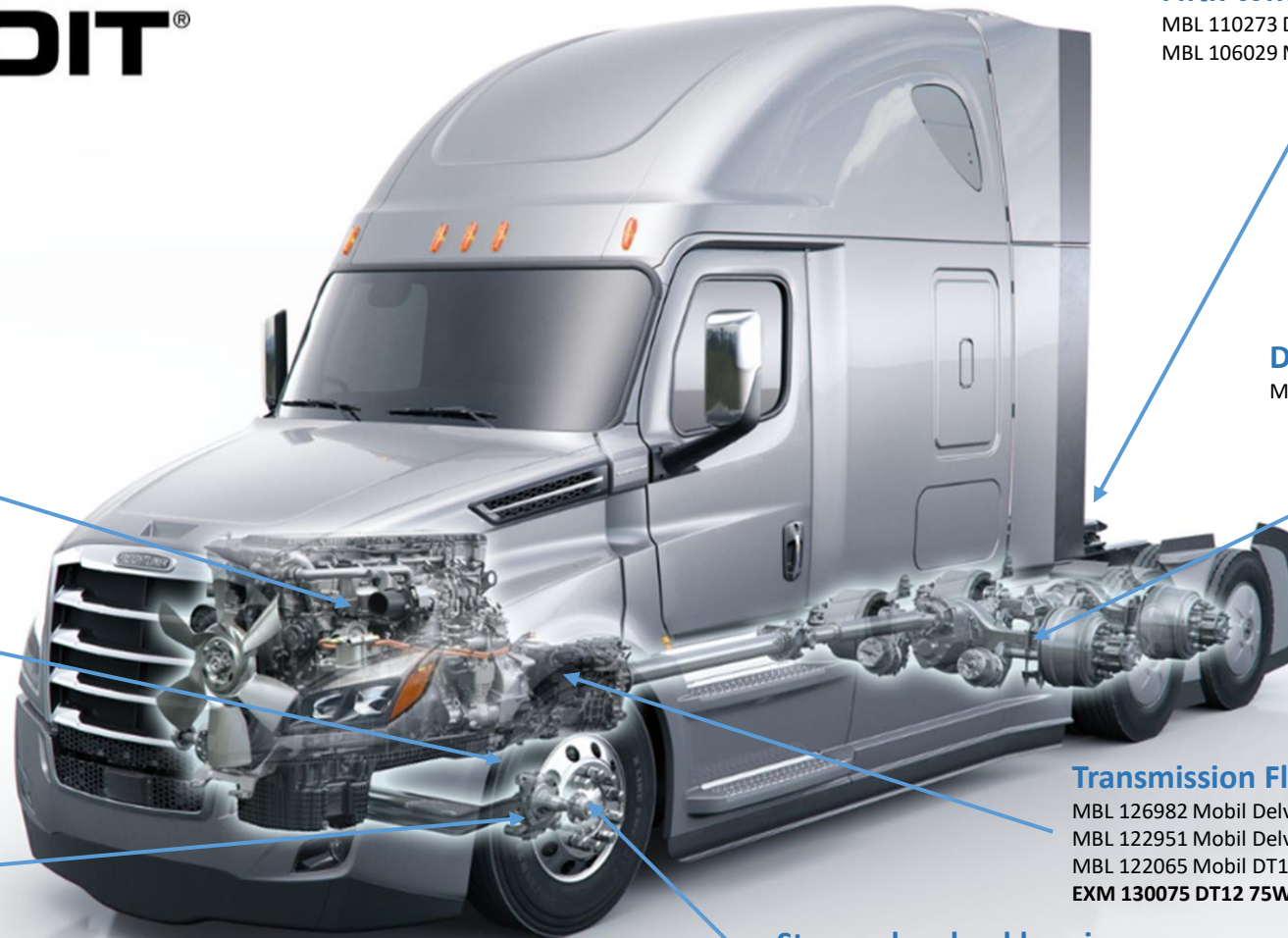
MBL 122455 Mobil Delvac Extreme FE 10W-30 FA-4
MBL 122450 Mobil Delvac Extreme 10W-30 CK-4
MBL 122457 Mobil Delvac Super FE 10W-30 FA-4
MBL 105420 Mobil Delvac 1300 Super 10W-30 CK-4
MBL 23539981 Detroit Genuine FE 10W-30 FA-4
MBL 23539977 Detroit Genuine 10W-30 CK-4
MBL 125396 Mobil Delvac Modern 15W-40 CNG/LNG

Manual Steering Gear

MBL 124624 Mobil ATF D/M
MBL 105810 Mobilith SHC 007

Greasing points: Tie rod ends, king pins, etc.

MBL 110273 Mobil Delvac Xtreme Grease
MBL 106029 Mobil Centaur Moly Series



Fifth Wheel

MBL 110273 Delvac Xtreme Grease
MBL 106029 Mobilgrease XHP 222

Differential/Final drive

MBL 122046 Mobil Delvac 1 Gear Oil 75W-90

Transmission Fluid

MBL 126982 Mobil Delvac 1 ATF Allison TES 668
MBL 122951 Mobil Delvac 1 Transmission Fluid 40
MBL 122065 Mobil DT12 75W-90
EXM 130075 DT12 75W-85 Fluid Pail

Steer axle wheel bearings

MBL 122046 Mobil Delvac 1 Gear Oil 75W-90
MBL 105810 Mobilith SHC 007

Mobil Delvac™

*For optimal fuel economy use products in bold

Dealer bulk tanks should be 10W30

SAE 10W-30 Capable* On-Highway Engine Models

		Engine	15W-40 CK-4	10W-30 CK-4	10W-30 FA-4
Cummins	Current Production	X15			2017 and newer
		X12			2018 and newer
		L9			
		B6.7			
	Legacy Engines	ISX 15		2010 and newer	
		ISX 12		2010 and newer	
		ISL9		2010 and newer	
		ISB6.7		2010 and newer	
		ISX			
		ISM			
		ISL			
		ISC			
		ISB			

		Engine	15W-40 CK-4	10W-30 CK-4	10W-30 FA-4
Detroit	Current Production	DD13			2010 and newer
		DD15			2010 and newer
		DD16			2010 and newer
		DD5			
		DD8			
	Legacy Engines	Series 60			
		MBE900			
		MBE4000			

		Engine	15W-40 CK-4	10W-30 CK-4	xW-30 FA-4
Mack	Current	MP8			2021 and newer ^{1,2}
		MP7			2021 and newer ²
	Legacy Engines	MP10			
		ASET			
		E-Tech			

1. Euro VI model engines only (2 oil filters vs. 3), 2. Oil must be Mack EOS-5 approved.

		Engine	15W-40 CK-4	10W-30 CK-4	10W-30 FA-4
Navistar	Legacy Engines	A26			Not for "Severe Service"
		N13			
		N10			
		N9			
		MaxxForce 13			
		MaxxForce 11			
		MaxxForce 10			
		MaxxForce 9			
		MaxxForce DT			

		Engine	15W-40 CK-4	10W-30 CK-4	10W-30 FA-4
Paccar	Current Production	MX-13			
		MX-11			
		PX-9		2010 and newer	
		PX-7		2010 and newer	
	Legacy Engines	PX-8			
		PX-6			

		Engine	15W-40 CK-4	10W-30 CK-4	xW-30 FA-4
Volvo	Current	D11			2021 and newer ^{1,2}
		D13			2021 and newer ²
	Legacy Engines	D16			
		D12			

1. Euro VI model engines only (2 oil filters vs. 3), 2. Oil must be Volvo VDS-5 approved.

Legend: Yes No

*Capable = recommended by/acceptable to the engine manufacturer for approximately the same ambient temperature range as an SAE 15W-40 oil.

Coolant

Detroit Coolant Timeline			
	June 2015	2017	2020 +
Factory Fill (Default)	OAT / ELC		
Factory Fill (Option)	Conventional / SLC		
Service Fill Options	OAT = Detroit Power Cool Plus or OAT Options listed on DFS 93K217		
	Conventional = Detroit Power Cool Or Conventional Options listed on DFS 93K217		

OAT / ELC:

- Organic Acid Technology
- Extended Life Coolant

Conventional / SLC:

- Fully formulated coolant
- Standard Life Coolant

Notes:

- In June 2015, Detroit made a switch from NOAT to OAT. NOAT is no longer allowed for use in Detroit engines.
- See TS Letter: 15 TS-3

Coolant Part Numbers

Gen 5 Factory Fill Coolant Options that Meet DFS 93K227					
Product	DTNA Part Numbers				
(All part numbers in 50/50 Concentration)	Bulk	275 Gal Tote	Drum 55 GAL	Jug 1 GAL Containers	Coolant Type
Detroit Power Cool Plus	OWI 23519399	OWI 23539084	OWI 23519398	OWI 23519396	OAT
FINAL Charge Global					
Mobil Delvac Extended Life Coolant	-	-	MBL 103126	MBL 103125	
Shell Rotella ELC NF	-	-	SLO 550041811	SLO 550041810	
Detroit Power Cool	OWI 23539892	OWI 23538603	OWI 23518918	OWI 23528203	Conventional
Fleet Charge					
Shell HD Phosphate Free	-	-	SLO 550049186	SLO 550049185	

Fuel for 2024MY +



Under the CARB Omnibus rule, starting in 2024 all commercially available fuels must be approved for use with CARB certified engines.

Engine Model	Model Year	Certification	Maximum Biodiesel Blend	Maximum Renewable Diesel Blend
DD Platform	MY 24 and Later	CARB Certified	20%	100%
		EPA Certified	5%	100%
	Prior to MY 24	All	5%	100%
MBE 900 & 4000	All MY	All	5%	100%
Series 60	MY 04 and later	All	20%	100%
	Prior to MY 04	All	5%	100%

New for MY2024

Fuel More Info

www.dtnatechlit.com/portal-public

Search for DDC-SVC-BRO-0120

Fuels Brochure

▲ Chapter 1: Introduction

1.1: Introduction

- ▶ Chapter 2: Overview of Fuel Types
- ▶ Chapter 3: Engine Compatibility and Fuel Quality Requirements
- ▶ Chapter 4: Recommended Fuel Specifications
- ▶ Chapter 5: Fuel Properties
- ▶ Chapter 6: Biodiesel Fuel - Additional Cautions
- ▶ Chapter 7: Renewable Diesel
- ▶ Chapter 8: Aftermarket Fuel Additives
- ▶ Chapter 9: Fuel Storage Best Practices
- ▶ Chapter 10: Fuel Filters
- ▶ Chapter 11: Warranty Notes

CHAPTER 1: INTRODUCTION

Introduction

This publication specifies the type of fuels required for the diesel-fueled engines manufactured and marketed by Detroit™. The information in this publication applies to DD13, DD15, DD16, DD5, DD8, MBE 900, MBE 4000, Series 60, and Series 50 engines. Use of fuels not meeting the specifications required in the present publication may cause engine damage and void warranties.

Note:

Parent topic: [Introduction](#)

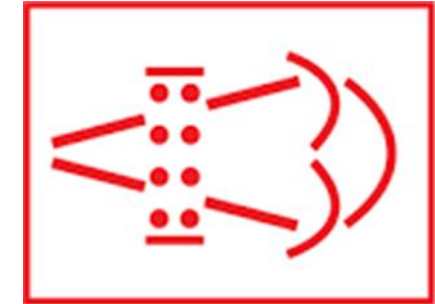
Document Number:0000009819

Publication Date:2023-08-02

DEF (Diesel Exhaust Fluid)

Must conform to ISO 22241-2019

- Must contain between 31.8-33.2 % Urea
- The rest must be pure water
- Very low allowable metals (ex. Aluminium, Calcium, Chromium, Copper, Iron, Potassium, Magnesium, Sodium, Nickel, Zinc)



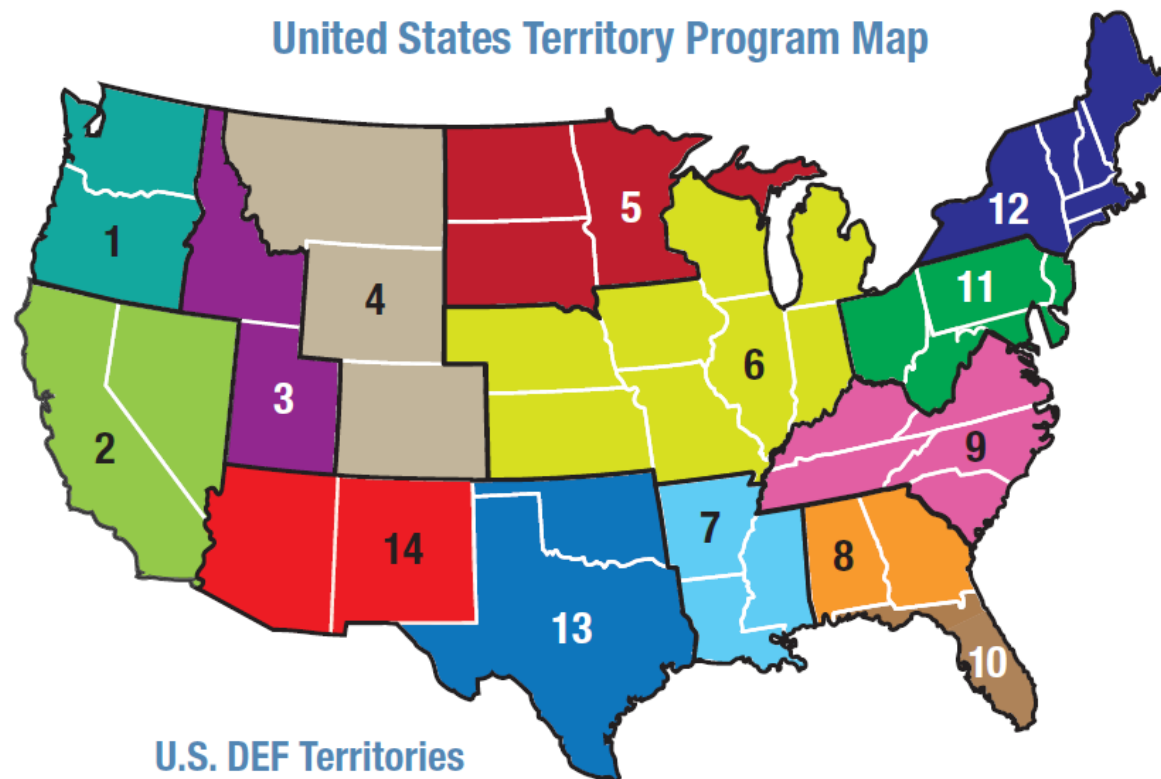
DEF Warning Light

DEF Part Numbers

Detroit® U.S. Territory Old World Base Part Number	2.5 Gal Box
Territory #1	OWI DDEF 002T1
Territory #2	OWI DDEF 002T2
Territory #3	OWI DDEF 002T3
Territory #4	OWI DDEF 002T4
Territory #5	OWI DDEF 002T5
Territory #6	OWI DDEF 002T6
Territory #7	OWI DDEF 002T7
Territory #8	OWI DDEF 002T8
Territory #9	OWI DDEF 002T9
Territory #10	OWI DDEF 002T10
Territory #11	OWI DDEF 002T11
Territory #12	OWI DDEF 002T12
Territory #13	OWI DDEF 002T13
Territory #14	OWI DDEF 002T14

Please reference territory map for your part number.

United States Territory Program Map



U.S. DEF Territories

Territory 1: WA, OR

Territory 2: CA, NV

Territory 3: ID, UT

Territory 4: MT, WY, CO

Territory 5: ND, SD, MN,

Territory 6: NE, KS, IA, MO, WI, IL, IN, MI

Territory 7: AR, LA, MS

Territory 8: AL, GA

Territory 9: KY, TN, VA, NC, SC

Territory 10: FL

Territory 11: PA, MD, NJ, DE, WV, OH

Territory 12: NY, VT, NH, CT, MA

Territory 13: TX, OK

Territory 14: AZ, NM